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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,544		07/30/2003	Atuhito Mochida	2003_1070A	6508
513	7590	10/04/2006		EXAMINER	
	•	IND & PONACK, L	MULPURI, SAVITRI		
2033 K STREET N. W. SUITE 800			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20006-1021				2812	
				DATE MAILED: 10/04/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
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Office Action Summary	10/629,544	MOCHIDA ET AL.				
omec Action Cummary	Examiner	Art Unit				
The MAILING DATE of this commission and	Savitri Mulpuri	2812				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timustilly apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 Ju	<u></u>					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL. 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) 8-12 is/are withdrawr 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/9/05;8/22/2006. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

This action is in response to the election of claims 1-7, filed on 7/13/2006.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

· A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Mochida (JP2002-217480)

Mochida et al teaches a method of mounting a semiconductor laser component having alight emitting portion on a submount through a bonding member, the method comprising the steps of : setting the submount having a bonding member at a mount surface therefore on a heating table;

Heating the submount to bring the bonding member upto a temperature more than a melting point thereof;

Positioning the semiconductor laser component on the mount surface of the submount by a collect means;

Pressure bonding the semiconductor laser component on the mount surface of the submount by the collect means; heating again the sub mount on the heating table Art Unit: 2812

without pressure by the collect after the bonding member is completely coagulated, wherein the bonding member is heated up to a melting point of the bonding member(see English abstract).

Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mochida et al in combination with Nakanishi et al (US 6808316). Mochida et al do not teach second heating is hot air heating. Nakanishi et al teaches soldering bonding by hot air heating. It would have been obvious to one of ordinary skill in the art to use non-contact heating such as hot air heating is desirable to heat fitted portions from top and bottom.(see col. 14, line s 1-15).

Claim 6, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mochida et al in combination with Admitted prior art and Slater et al (20030015721).

It is not clear in Mochida et al whether the submount is made of Si or SiC and laser is made of GaAs or GaN or AllnGaP. Admitted prior art teaches such

materials(see fig 1A- 1C and related description). It would have been obvious to one of ordinary skill in the art to use such materials because packaging with such materials are well known as suggested by Admitted prior art.

It also not clear whether Mochida et al teaches PB free solder as bonding material. Slater et al teaches SnAg (0064). It would a have been obvious to one of ordinary skill in the art to use SnAg as alternative to SnPb as suggested by Slater et al.

Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 703.305.5184. The examiner can normally be reached on Mon-Fri from 8 a.m to 4.30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free).

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